

SEQUENCE LISTING

<110> Noteborn, Mathieu
 Danen-van Oorschot, Astrid
 Rohn, Jennifer

<120> APOPTIN-ASSOCIATING PROTEIN

<130> 2906-4820US

<140> To be assigned

<141> 2001-03-27

<160> 46

<170> PatentIn version 3.0

<210> 1

<211> 981

<212> DNA

<213> vector pMT2SM-AAP-5

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 120

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 180

ggaggcagct atcaaataac agagcatgct ccagaggcat ccagcctgc tgagaacatc
 240

tctaaggacc tctacataga agtatatcca gggacctatt ctgtcactgt gggctcaa
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gacttaacca agaagactca tgtggtagca gttgattctg gacaaagcgt ggacctggtc
 360

ttccctgtgt gatgttgacc atcactgcc tcatatcacc tttttttaag tagtaagaat
 420

aaagccactg tatgattctc ttaatagcta tacattaatc ctgttttttag tgctgactgg
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gtcagccttc cgggaactgg agtctgtctc tttcagtgtc tttttgtttg tttgggttgg

540

tgttttttga gacagtctcg ctctgttgcc caggctggag tgcagtggcg tgatctcggc
600

tcaccgcaag ttccgcctcc cgggttcaca ccattctcct gctcagcct cccgagtagc
660

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720

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780

ggcctcccaa agtgttggga ttacaggcgt gagccaccgc gcccggcctc agtgcctttt
840

ttaacttgag ggtgtagagg tcctccacgc ttgtttgcct gaaagtaata taatgatgct
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981

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<212> PRT

<213> vector pMT2SM-AAP-5

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Tyr Arg Tyr His Arg Gly Glu Ser Lys Leu His Met Cys Leu Asp Ile
35 40 45

Gly Asn Gly Gln Arg Lys Asp Arg Lys Lys Thr Ser Leu Gly Pro Gly
50 55 60

Gly Ser Tyr Gln Ile Ser Glu His Ala Pro Glu Ala Ser Gln Pro Ala
65 70 75 80

Glu Asn Ile Ser Lys Asp Leu Tyr Ile Glu Val Tyr Pro Gly Thr Tyr
 85 90 95

Ser Val Thr Val Gly Ser Asn Asp Leu Thr Lys Lys Thr His Val Val
 100 105 110

Ala Val Asp Ser Gly Gln Ser Val Asp Leu Val Phe Pro Val
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 <213> pACT-specific primer

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<210> 4
 <211> 16
 <212> PRT
 <213> partial AAP-5 clone peptide

<400> 4

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<210> 5
 <211> 16
 <212> PRT
 <213> partial AAP-5 clone peptide

<400> 5

Gly Asn Gly Gln Arg Lys Asp Arg Lys Lys Thr Ser Leu Gly Pro Cys
 1 5 10 15

<210> 6
 <211> 16
 <212> PRT
 <213> partial AAP-5 clone peptide

<400> 6

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1	5	10	15
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 <213> AAP-5 5'primer

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<210> 8
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<400> 8
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<210> 9
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 <212> DNA
 <213> AAP-5

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 120

aatgggggtgg accgacgttc cctgcagcgt tcagcaaagc tggctetaga agtgctggag
 180

agggccaaga ggagggcggt ggactggcat gccctggagc gtcccaaagg ctgcatgggg
 240

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 300

ctcccgggag agagagaaga gagaccccca acccttagtg cttccttcag aacaatggct
 360

gaattcatgg actatacttc aagtcagtgt gggaaatatt attcatctgt gccagaggaa
 420

ggaggggcaa cccatgtcta tcgttatcac agaggcgagt cgaagctgca catgtgcttg
480

gacatagga atggtcagag aaaagacaga aaaaagacat cccttggtcc tggaggcagc
540

tatcaaatat cagagcatgc tccagaggca tcccagcctg ctgagaacat ctctaaggac
600

ctctacatag aagtatatcc agggacctat tctgtcactg tgggctcaaa tgacttaacc
660

aagaagactc atgtggtagc agttgattct ggacaaagcg tggacctggt ctccctgtg
720

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<210> 10

<211> 210

<212> PRT

<213> open reading frame of AAP-5

<400> 10

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			20					25					30		

Lys	Arg	Arg	Ala	Val	Asp	Trp	His	Ala	Leu	Glu	Arg	Pro	Lys	Gly	Cys
			35				40					45			

Met Gly Val Leu Ala Arg Glu Ala Pro His Leu Glu Lys Gln Pro Ala
 50 55 60

Ala Gly Pro Gln Arg Val Leu Pro Gly Glu Arg Glu Glu Arg Pro Pro
 65 70 75 80

Thr Leu Ser Ala Ser Phe Arg Thr Met Ala Glu Phe Met Asp Tyr Thr
 85 90 95

Ser Ser Gln Cys Gly Lys Tyr Tyr Ser Ser Val Pro Glu Glu Gly Gly
 100 105 110

Ala Thr His Val Tyr Arg Tyr His Arg Gly Glu Ser Lys Leu His Met
 115 120 125

Cys Leu Asp Ile Gly Asn Gly Gln Arg Lys Asp Arg Lys Lys Thr Ser
 130 135 140

Leu Gly Pro Gly Gly Ser Tyr Gln Ile Ser Glu His Ala Pro Glu Ala
 145 150 155 160

Ser Gln Pro Ala Glu Asn Ile Ser Lys Asp Leu Tyr Ile Glu Val Tyr
 165 170 175

Pro Gly Thr Tyr Ser Val Thr Val Gly Ser Asn Asp Leu Thr Lys Lys
 180 185 190

Thr His Val Val Ala Val Asp Ser Gly Gln Ser Val Asp Leu Val Phe
 195 200 205

Pro Val
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<210> 11

<211> 23

<212> DNA

<213> AAP-5 - #5F

<400> 11

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<210> 12

<211> 23

<212> DNA

<213> AAP-5 - #5R

<400> 12
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 23

<210> 13
 <211> 15
 <212> PRT
 <213> Peptides used for raising antibodies against AAP-3

<400> 13

Ile Tyr Gln Arg Ser Gly Glu Arg Pro Val Thr Ala Gly Glu Glu
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<210> 14
 <211> 15
 <212> PRT
 <213> Peptides used for raising antibodies against AAP-3

<400> 14

Asp Glu Gln Val Pro Asp Ser Ile Asp Ala Arg Glu Ile Phe Asp
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<210> 15
 <211> 15
 <212> PRT
 <213> Peptides used for raising antibodies against AAP-3

<400> 15

Arg Ser Ile Asn Asp Pro Glu His Pro Leu Thr Leu Glu Glu Leu
 1 5 10 15

<210> 16
 <211> 15
 <212> PRT
 <213> Peptides used for raising antibodies against AAP-3

<400> 16

Glu Glu Ser Thr Pro Val His Asp Ser Pro Gly Lys Asp Asp Ala
 1 5 10 15

<210> 17
 <211> 15
 <212> PRT

<213> Peptides used for raising antibodies against AAP-3

<400> 17

Asp	Ser	Phe	Lys	Thr	Lys	Asp	Ser	Phe	Arg	Thr	Ala	Lys	Ser	Lys
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<210> 18

<211> 15

<212> PRT

<213> Peptides used for raising antibodies against AAP-3

<400> 18

Ile	Asp	Ile	Asp	Ile	Ser	Ser	Arg	Arg	Arg	Glu	Asp	Gln	Ser	Leu
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<210> 19

<211> 10

<212> PRT

<213> pMT2SM vector containing a Myc-tag

<400> 19

Glu	Gln	Lys	Leu	Ile	Ser	Glu	Glu	Asp	Leu
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<210> 20

<211> 651

<212> DNA

<213> partial sequence of vector pMT2SM-AAP-3

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120

agcatcgacg cagcgagat cttcgactg attcgctcca tcaatgaccc ggagcatcca
180

ctgacgctag aggagttgaa cgtagtagag caggtgcggg ttcagggttag cgaccccgag
240

agtacagtgg ctgtggcttt cacaccaacc attccgcact gcagcatggc cacccttatt
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ggtctgtcca tcaaggtcaa gcttctgctc tcccttctc agcgtttcaa gatggacgtg
360

cacattactc cggggaccca tgcttcagag catgcagtga acaagcaact tgcagataag
420

gagcgggtgg cagctgccct ggagaacacc cacctcttgg aggttgtgaa tcagtgcctg
480

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540

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<210> 21

<211> 167

<212> PRT

<213> partial sequence of vector pMT2SM-AAP-3

<400> 21

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			20					25					30		

Thr	Ala	Gly	Glu	Glu	Asp	Glu	Gln	Val	Pro	Asp	Ser	Ile	Asp	Ala	Arg
		35					40					45			

Glu	Ile	Phe	Asp	Leu	Ile	Arg	Ser	Ile	Asn	Asp	Pro	Glu	His	Pro	Leu
	50					55					60				

Thr	Leu	Glu	Glu	Leu	Asn	Val	Val	Glu	Gln	Val	Arg	Val	Gln	Val	Ser
65					70					75					80

Asp	Pro	Glu	Ser	Thr	Val	Ala	Val	Ala	Phe	Thr	Pro	Thr	Ile	Pro	His
				85					90					95	

Cys	Ser	Met	Ala	Thr	Leu	Ile	Gly	Leu	Ser	Ile	Lys	Val	Lys	Leu	Leu
			100					105					110		

Arg	Ser	Leu	Pro	Gln	Arg	Phe	Lys	Met	Asp	Val	His	Ile	Thr	Pro	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

115	120	125
Thr His Ala Ser Glu His Ala Val Asn Lys Gln Leu Ala Asp Lys Glu		
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Arg Val Ala Ala Ala Leu Glu Asn Thr His Leu Leu Glu Val Val Asn		
145	150	155
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Gln Cys Leu Ser Ala Arg Ser		
165		

<210> 22
 <211> 770
 <212> DNA
 <213> AAP-4

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 120
 aaagcagtgt gacggaacct tgccccgaca gtggtgaaca gctgcagcca gctcctgtgc
 180
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 240
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 300
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 360
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 420
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 480
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 540
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 600
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660

taagcatcaa gtttaagcca aagaccatga caacgataac aatctcgatg tagcaaagtt
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770

<210> 23
<211> 256
<212> PRT
<213> AAP-4

<220>
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<222> (1)..(256)
<223> Xaa can be any amino acid

<400> 23

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Pro	Asn	Thr	Leu	Asn	Gly	Tyr	Lys	Ser	Ser	Val	Thr	Glu	Pro	Cys	Pro	35	40	45	
Asp	Ser	Gly	Glu	Gln	Leu	Gln	Pro	Ala	Pro	Val	Leu	Gln	Glu	Glu	Glu	50	55	60	
Leu	Ala	His	Glu	Thr	Ala	Gln	Lys	Gly	Glu	Ala	Lys	Cys	His	Lys	Ser	65	70	75	80
Asp	Thr	Gly	Met	Ser	Lys	Lys	Lys	Ser	Arg	Gln	Gly	Lys	Leu	Val	Lys	85	90	95	
Gln	Phe	Ala	Lys	Ile	Glu	Glu	Ser	Thr	Pro	Val	His	Asp	Ser	Pro	Gly	100	105	110	
Lys	Asp	Asp	Ala	Val	Pro	Asp	Leu	Met	Gly	Pro	His	Ser	Asp	Gln	Gly	115	120	125	
Glu	His	Ser	Gly	Thr	Val	Gly	Val	Pro	Val	Ser	Tyr	Thr	Asp	Cys	Ala	130	135	140	

Pro Ser Pro Val Gly Cys Ser Val Val Thr Ser Asp Ser Phe Lys Thr
 145 150 155 160

Lys Asp Ser Phe Arg Thr Ala Lys Lys Xaa Lys Glu Glu Ala Asn His
 165 170 175

Lys Val Xaa Cys Thr Val Asn Pro Arg Lys Xaa Leu Trp Glu Ser Gln
 180 185 190

Ile Asp Ser Ser Xaa Ala Ser Xaa Xaa Gln Gln Gln Asn Lys Trp Thr
 195 200 205

Lys Arg Met Met Gly Met Lys Leu Phe Pro Lys Leu Ser Ile Lys Phe
 210 215 220

Lys Pro Lys Thr Met Thr Thr Ile Thr Ile Ser Met Xaa Gln Ser Tyr
 225 230 235 240

Lys Gly Leu Ala Gln Asp Xaa Glu Cys Phe Thr Lys Leu Lys Arg His
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<210> 24

<211> 10

<212> PRT

<213> Sequence homology analysis of AAP-5

<400> 24

Pro Met Ala Glu Phe Met Asp Tyr Thr Ser
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<210> 25

<211> 10

<212> PRT

<213> Sequence homology analysis of AAP-5

<400> 25

Ser Gln Cys Gly Lys Tyr Tyr Ser Ser Val
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<210> 26

<211> 10

<212> PRT

<213> Sequence homology analysis of AAP-5

<400> 26

Pro Glu Glu Gly Gly Ala Thr His Val Tyr
 1 5 10

<210> 27
 <211> 5
 <212> PRT
 <213> Sequence homology analysis of BRIP1
 <400> 27

Gly Thr Ser Ser Cys
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<210> 28
 <211> 10
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 <213> Sequence homology analysis of BRIP1
 <400> 28

Arg Arg Val Arg Ala Cys Gly Arg Ile His
 1 5 10

<210> 29
 <211> 10
 <212> PRT
 <213> Sequence homology analysis of AAP-5
 <400> 29

Arg Tyr His Arg Gly Glu Ser Lys Leu His
 1 5 10

<210> 30
 <211> 10
 <212> PRT
 <213> Sequence homology analysis of AAP-5
 <400> 30

Met Cys Leu Asp Ile Gly Asn Gly Gln Arg
 1 5 10

<210> 31
 <211> 10
 <212> PRT
 <213> Sequence homology analysis of AAP-5

<400> 31

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<211> 10

<212> PRT

<213> Sequence homology analysis of BRIP1

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<210> 33

<211> 10

<212> PRT

<213> Sequence homology analysis of BRIP1

<400> 33

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<210> 34

<211> 10

<212> PRT

<213> Sequence homology analysis of BRIP1

<400> 34

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<210> 35

<211> 10

<212> PRT

<213> Sequence homology analysis of AAP-5

<400> 35

Gly	Gly	Ser	Tyr	Gln	Ile	Ser	Glu	His	Ala
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<210> 36

<211> 10

<212> PRT
 <213> Sequence homology analysis of AAP-5

<400> 36

Pro Glu Ala Ser Gln Pro Ala Glu Asn Ile
 1 5 10

<210> 37
 <211> 10
 <212> PRT
 <213> Sequence homology analysis of AAP-5

<400> 37

Ser Lys Asp Leu Tyr Ile Glu Val Tyr Pro
 1 5 10

<210> 38
 <211> 10
 <212> PRT
 <213> Sequence homology analysis of BRIP1

<400> 38

Phe Leu Phe Gly Ser Ile Arg Ser Ala Ala
 1 5 10

<210> 39
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 <212> PRT
 <213> Sequence homology analysis of BRIP1

<400> 39

Pro Val Ala Val Glu Pro Gly Ala Ala Val
 1 5 10

<210> 40
 <211> 10
 <212> PRT
 <213> Sequence homology analysis of BRIP1

<400> 40

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 1 5 10

<210> 41
 <211> 10
 <212> PRT
 <213> Sequence homology analysis of AAP-5

<400> 41

Gly Thr Tyr Ser Val Thr Val Gly Ser Asn
 1 5 10

<210> 42
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 <213> Sequence homology analysis of AAP-5

<400> 42

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<210> 43
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 <213> Sequence homology analysis of AAP-5

<400> 43

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 1 5 10

<210> 44
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<400> 44

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<210> 45
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 <212> PRT
 <213> Sequence homology analysis of BRIP1

<400> 45

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5

10

<210> 46

<211> 10

<212> PRT

<213> Sequence homology analysis of BRIP1

<400> 46

Cys Tyr Leu Val Lys Arg Arg Gly Arg Trp

1

5

10